



CONFIDENTIAL								
CAPACITIES								
BALLAST TANKS	GAL	TONS(SW)	FUEL OIL TANKS	GAL	TONS(OIL)	LUBRICATING OIL TANKS	GAL	TONS(OIL)
NO. 1 MAIN BALLAST	12717	48.57	NO. 1 NORMAL FUEL OIL	11400	35.40	NO. 1 ENGINE STOWAGE 95% CAP	855	2.94
NO. 2A & 2B	15500	59.20	NO. 2 NORMAL FUEL OIL	13050	40.53	NO. 2 ENGINE STOWAGE 95% CAP	469	1.61
NO. 2C & 2D	16861	64.38	NO. 6 NORMAL FUEL OIL	14900	46.27	NO. 3 ENGINE STOWAGE 95% CAP	1473	5.06
NO. 6A & 6B	17527	66.96	NO. 7 NORMAL FUEL OIL	10669	33.13			
NO. 6C & 6D	18567	70.92	FUEL OIL COLLECTING	2980	9.25			
			FUEL OIL EXPANSION	2980	9.25			
SAFETY	6336	24.19	NO. 1 CLEAN FUEL OIL - 95% CAP.	950	2.95	TOTAL	2797	9.61
NO. 3 FUEL BALLAST (3A & 3B)	19614	74.92				NO. 1 MAIN ENGINE SUMP 75% NET CAP	444	1.53
NO. 4 FUEL BALLAST (4A & 4B)	24499	93.58						
NO. 5 FUEL BALLAST (5A & 5B)	19823	75.72				NO. 3 MAIN ENGINE SUMP 75% NET CAP	444	1.53
						NO. 4 MAIN ENGINE SUMP 75% NET CAP	444	1.53
TOTAL	151444	578.44				TOTAL	1332	4.59
						MAIN MOTOR SUMPS 182 75% NET CAP	163	.58
						COMBINED TOTAL	4297	14.73
VARIABLE BALLAST TANKS	GAL	TONS(SW)						
NO. 1 AUXILIARY	8184	31.26	FUEL BALLAST					
NO. 2 AUXILIARY	8184	31.26	NO. 3A & 3B	19246	59.77			
FORWARD TRIM	6433	24.57	NO. 4A & 4B	24032	74.63			
FORWARD WRT	1309	5.00	NO. 5A & 5B	19410	60.28			
AFTER TRIM	5034	19.24						
AFTER WRT	1384	5.28	TOTAL	62688	194.68			
NEGATIVE	3172	12.10	COMBINED TOTAL	119168	370.07			
TOTAL	33700	116.61	FRESH WATER TANKS	GAL	TONS(FW)			
			NO. 1 & 2	1980	7.35			
			NO. 3 & 4	1980	7.35			
BOW BUOYANCY	3837	14.65	TOTAL	3960	14.70			
			BATTERY FRESH WATER					
SANITARY TANKS		(S.W.)	FWD	597.8	2.22			
NO. 1 SANITARY (FWD)	320	1.22	AFT	597.8	2.22			
NO. 2 SANITARY (AMIDSHIPS)	1100	4.20						
NO. 3 SANITARY (AFT)	442	1.69	TOTAL	1195.6	4.44			
TOTAL	1862	7.11						

NOTES

1. MBT CAPACITIES ARE GROSS TANK MINUS RESIDUAL WATER. GROSS TANK IS TANK PLUS VENT PIPING. VOLUME OCCUPIED BY LEAD BALLAST HAS NOT BEEN ACCOUNTED FOR IN THESE CALCULATIONS.

2. FUEL OIL TANK CAPACITIES: "GALLONS" IS GROSS TANK. "TONS OIL" IS USEABLE CAPACITY WHICH IS TANK CAPACITY MINUS WATER SEAL.

PRINCIPAL DIMENSIONS				HEIGHTS FROM THE 15'-3" (MEAN) DWL				FRAME SPACING	
				TOP OF AN/DRA-II HELICYL RAISED					
LENGTH OVERALL (ACT)				306'-3 1/2"	TOP OF NO. 1 PERISCOPE RAISED				0 TO FR 35
LENGTH BETWEEN PERPENDICULARS (DES)				307'-0"	O.C. OF NO. 1 PERISCOPE RAISED				FR 35 TO FR 62
FWD. END OF BOW AFT OF F.P.				8 1/2"	TOP OF NO. 2 PERISCOPE RAISED				FR 62 TO FR 69
LENGTH OF STRAIGHT KEEL				154'-7 1/4"	O.C. OF NO. 2 PERISCOPE RAISED				FR 69 TO FR 103
BREADTH, MOLDED				27'-1 3/4"	TOP OF ECM/DF MAST RAISED				FR 103 TO FR 104
BREADTH, EXTREME				27'-3 1/4"	TOP OF SNORKEL MAST RAISED				FR 104 TO FR 106
RATIO - LENGTH TO BEAM				11.23	TOP OF SNORKEL EXHAUST RAISED				FR 106 TO FR 137
DRAFT - SURFACE CONDITION TO UNDERSIDE OF KEEL PLATES (MEAN) DWL				15'-3"					
SHAFTS - DIVERGE AT ANGLE WITH C. OF SHIP				1° 39'	UHF & IFF ANTENNA RAISED				
SHAFTS - C. AT MAIN MOTOR ( 14" AFT. OF FR. 104) FROM C. OF SHIP				4'-3 1/2"	TOP OF MIDFED WHIP ANT RAISED				NUMBER OF FRAMES
SHAFTS - C. FROM BASELINE AT FR. 128				6'-9"	TOP OF SS RADAR ANT. RAISED				137
SHAFTS RAKE OUTBOARD & AFT. PER INCH FROM C.				0.02874"					
SHAFTS RAKE FROM BASELINE & FWD. PER INCH				0.02613"					
SHAFTS - C. AT MAIN MOTOR ( 14" AFT. OF FR. 104) ABOVE BASELINE				8'-0"					
PROPELLER CENTER FWD OF A.P.				18'-6"					
RUDDER AXIS FWD OF A.P.				10'-6"					
NUMBER OF FRAMES				137					
ACCOMMODATIONS				COMPARTMENT FLOODABLE EFFECT TABULATION				NAVIGATION LIGHT HEIGHTS FROM 15'-3" (MEAN) DWL	
COMPARTMENT	OFFICERS	C. P. O.	CREW	WATER TIGHT COMPARTMENT		FLOODABLE VOLUME		CENTER OF GRAVITY OF WATER	
						GALLONS	TONS	ABOVE BOT. OF KEEL	FWD. OF FR. 69
FORWARD TORPEDO ROOM			13	FORWARD TORPEDO ROOM	33365	127.40	13.00	99.50	C. OF FORD ANCHOR LT.
OFFICERS' QUARTERS	10	5		OFFICERS QTRS. & FWD. BATTERY SPACE	31600	120.70	13.52	65.25	C. OF MASTHEAD LT.
CREW'S QUARTERS			36	CONTROL, RADIO, RADAR RMS, & EQUIPT. SPACE	30044	114.70	12.14	38.04	C. OF SIDE LIGHT
AFTER TORPEDO ROOM			15	CREWS QUARTERS, MESS & GALLEY, STORE ROOM & AFTER BATTERY SPACE	47609	181.80	13.14	1.99	C. OF STERN LIGHT
TOTAL	10	5	64	FORWARD ENGINE ROOM	27994	106.90	12.44	33.48	C. OF AFT ANCHOR LT.
TOTAL ACCOMMODATIONS 79				AFTER ENGINE ROOM	31682	121.00	12.26	60.04	HEIGHT FORD ANCHOR LT. ABV. AFT A.L.T.
				MANEUVERING & MOTOR ROOMS	23296	89.00	12.25	85.91	C. OF EMERGENCY STERN LT.
				AFTER TORPEDO ROOM & STOWAGE	37463	143.17	12.80	112.00	
				CONNING TOWER	5012	19.10	24.38	37.29	

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SUBMARINE SS391  
GENERAL DIMENSIONS  
SCALE - PLATE NO. 2  
BUSHIPS NO. SS391-SOI03-68301

Declassified under Executive Order 13526  
NND Project Number: NW 47327 (Ship Plans)  
By ARP Date 1/14/20



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Declassified under Executive Order 13526

NND Project Number: NW 47327 (Ship Plan

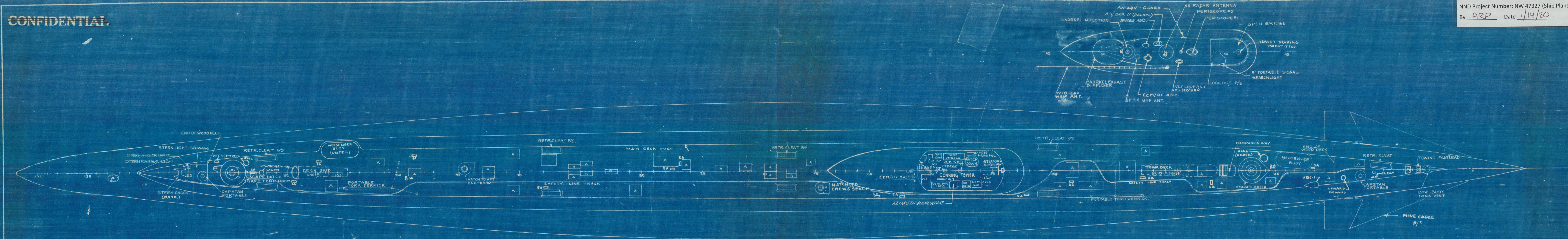
By ARP Date 1/14/20

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SUBMARINE SS 391  
OUTBOARD PROFILE  
SCALE: 1/8"=1' PLATE NO.  
BU. NO. SS391-SO103-68301



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NND Project Number: NW 47327 (Ship Plans)  
By ARP Date 1/14/20

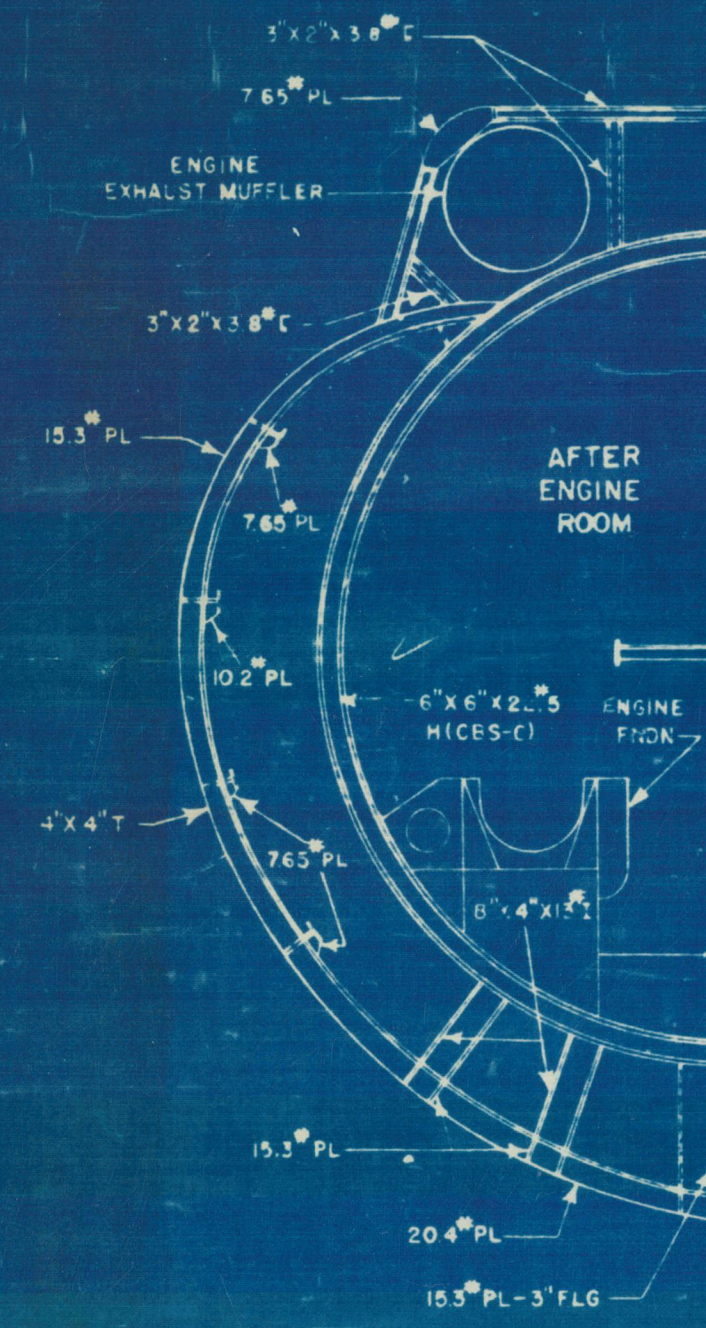
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SUBMARINE SS 391  
MAIN DECK & BRIDGE DECK  
SCALE: 1/8"=1' PLATE NO. 5  
BU. NO. SS391-SOI03-68301

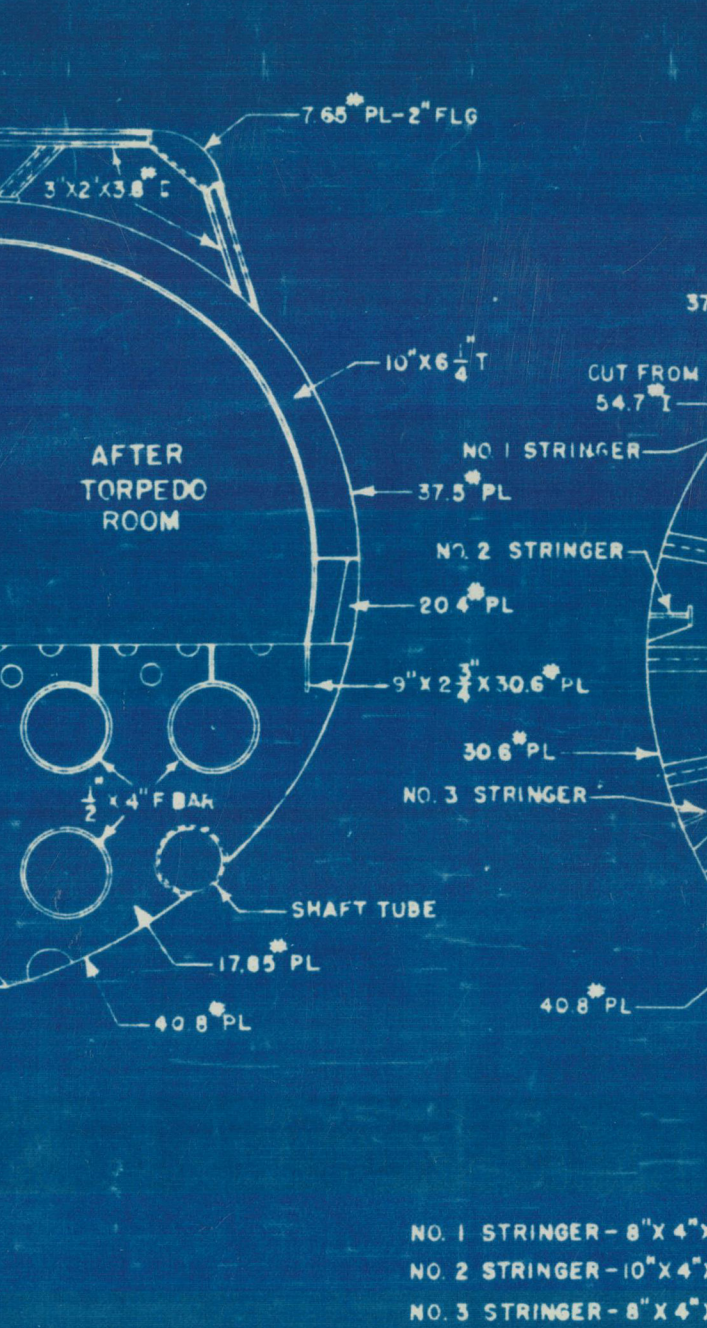


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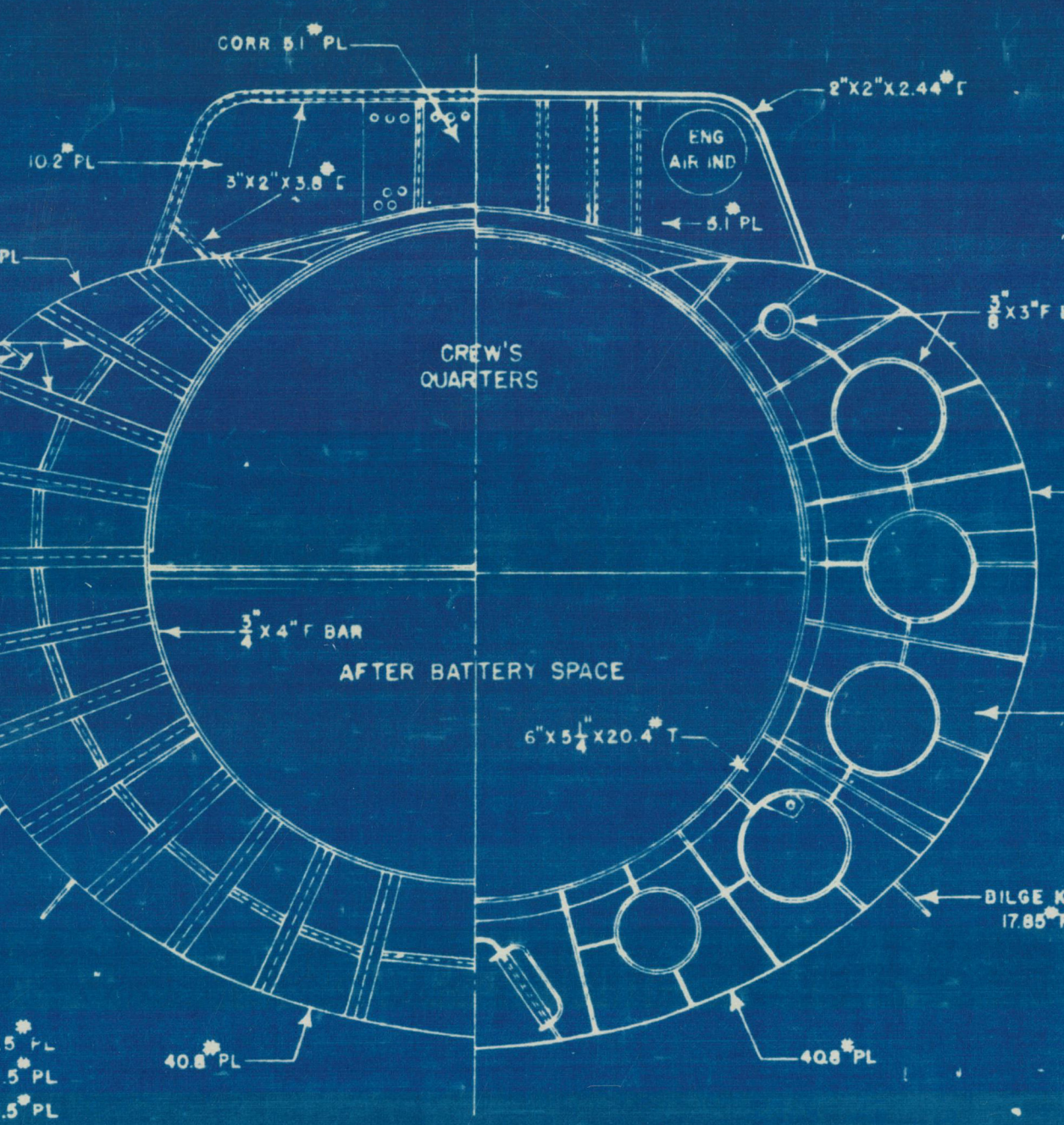
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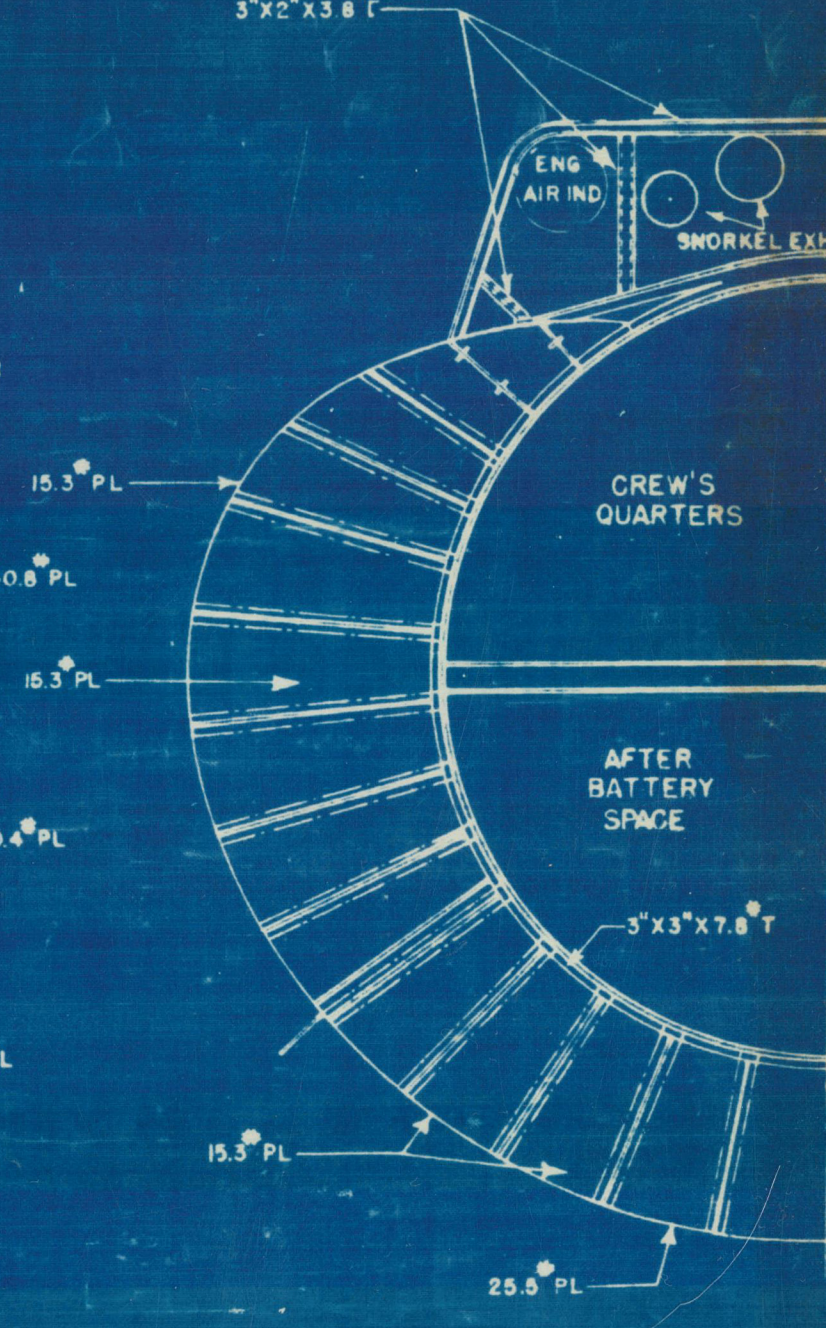
SECTION AT FRAME 95  
LOOKING AFT



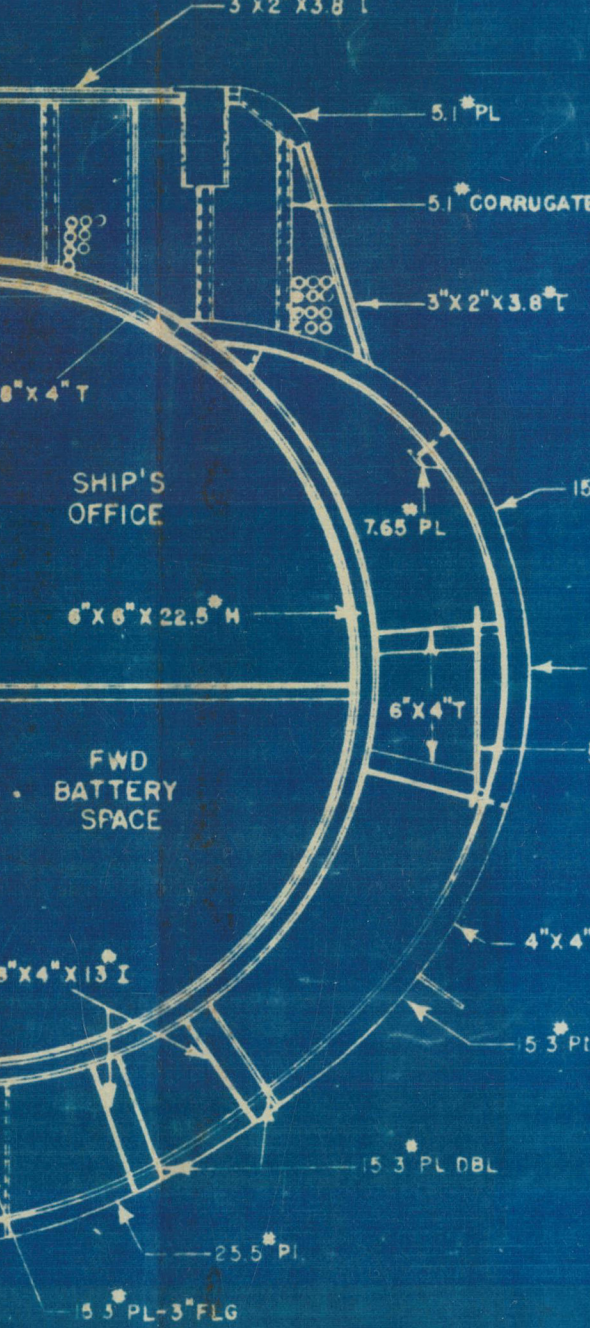
SECTION AT FRAME 113  
LOOKING AFT



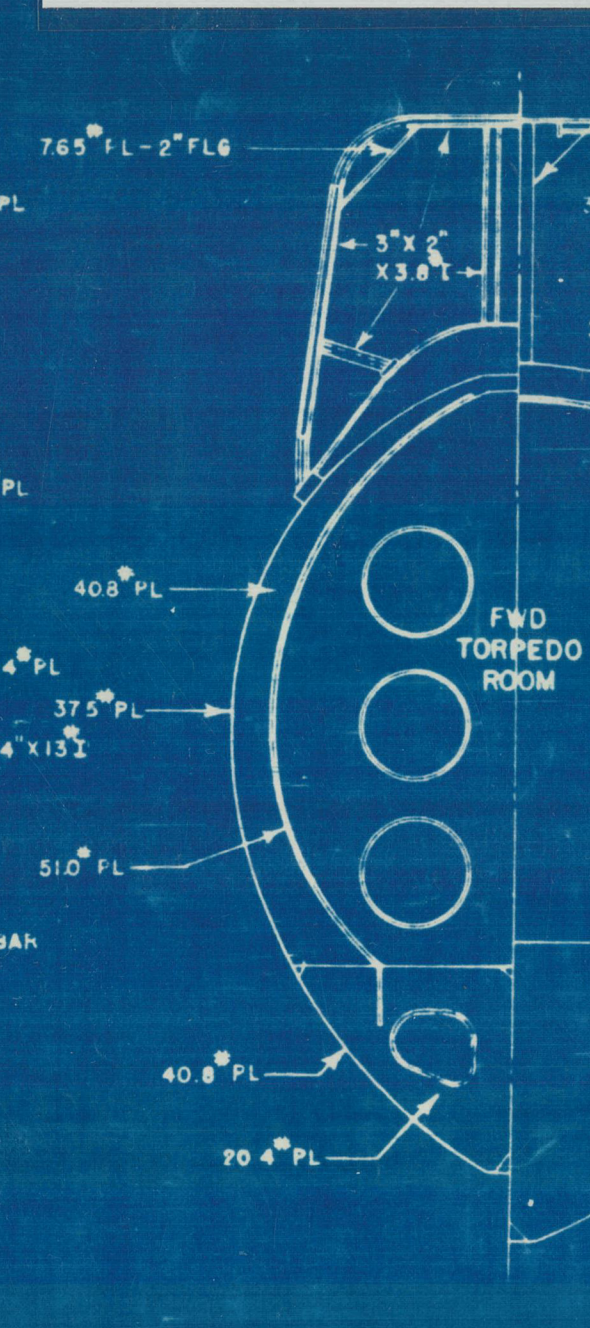
TYPICAL SAFETY & AUXILIARY  
TANK BULKHEADS



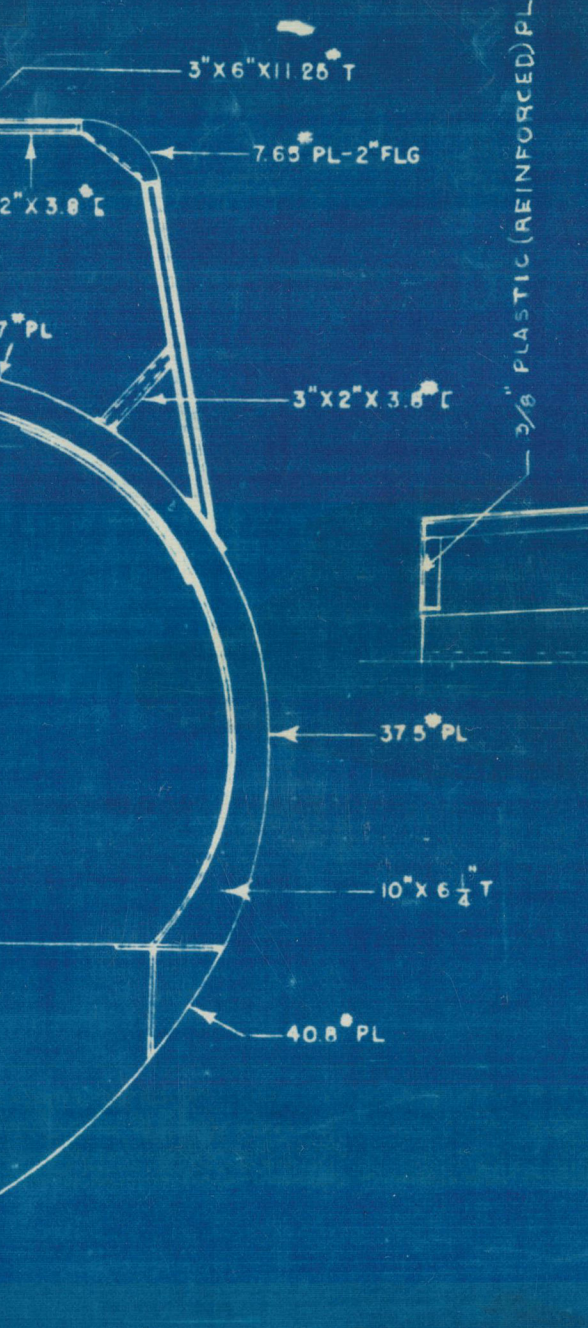
TYPICAL SAFETY & AUXILIARY  
TANK FRAMING



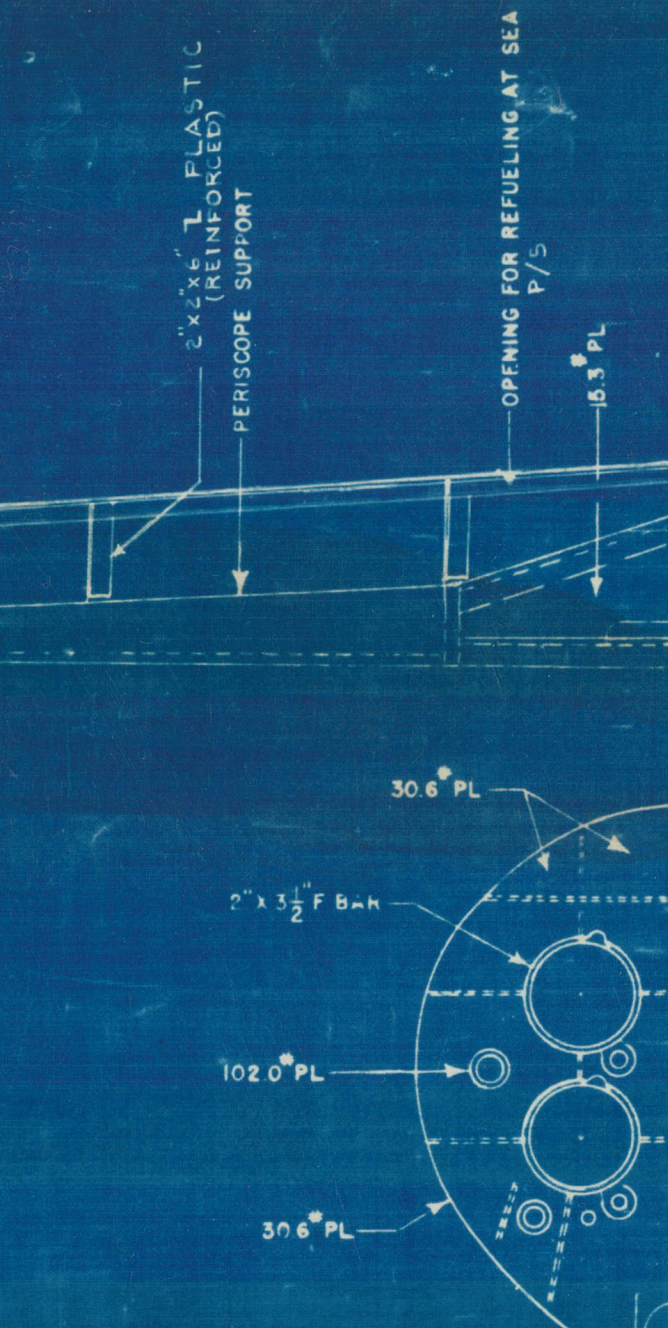
TYPICAL WING BULKHEAD



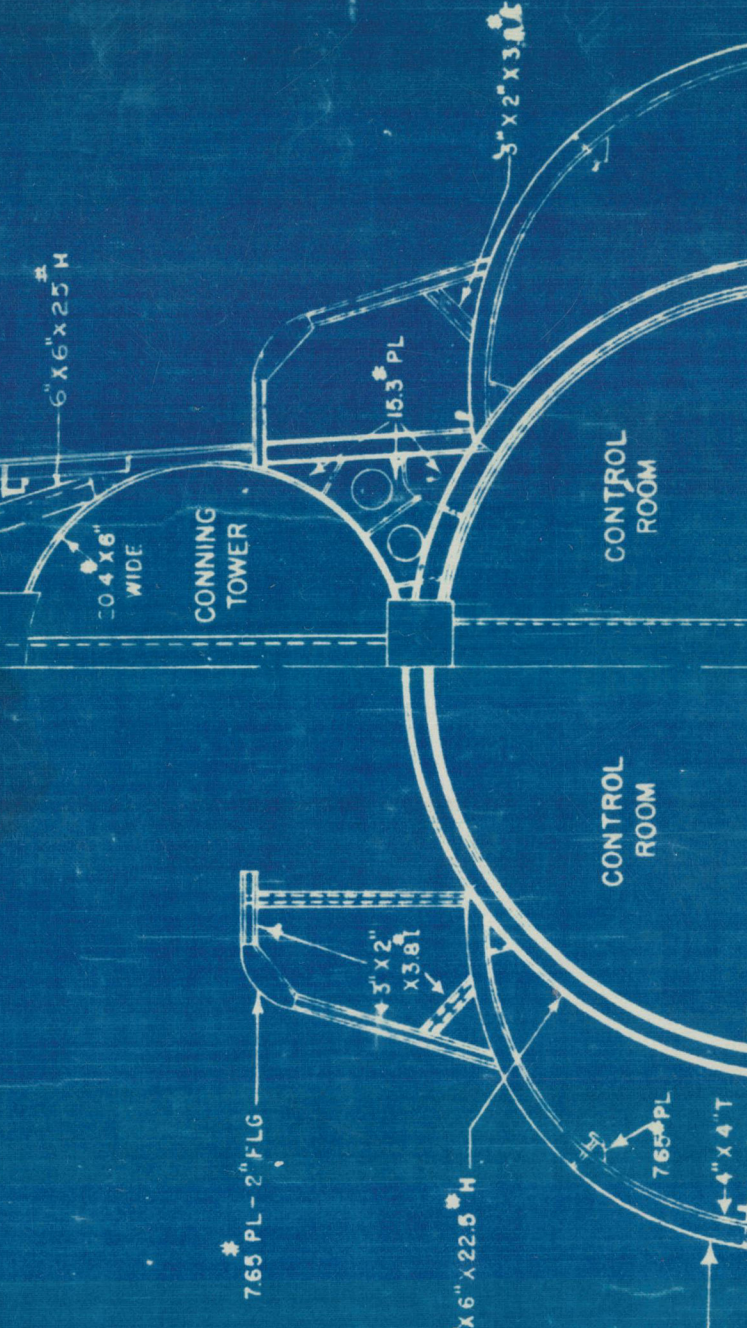
TYPICAL INNER & OUTER  
HULL FRAMES



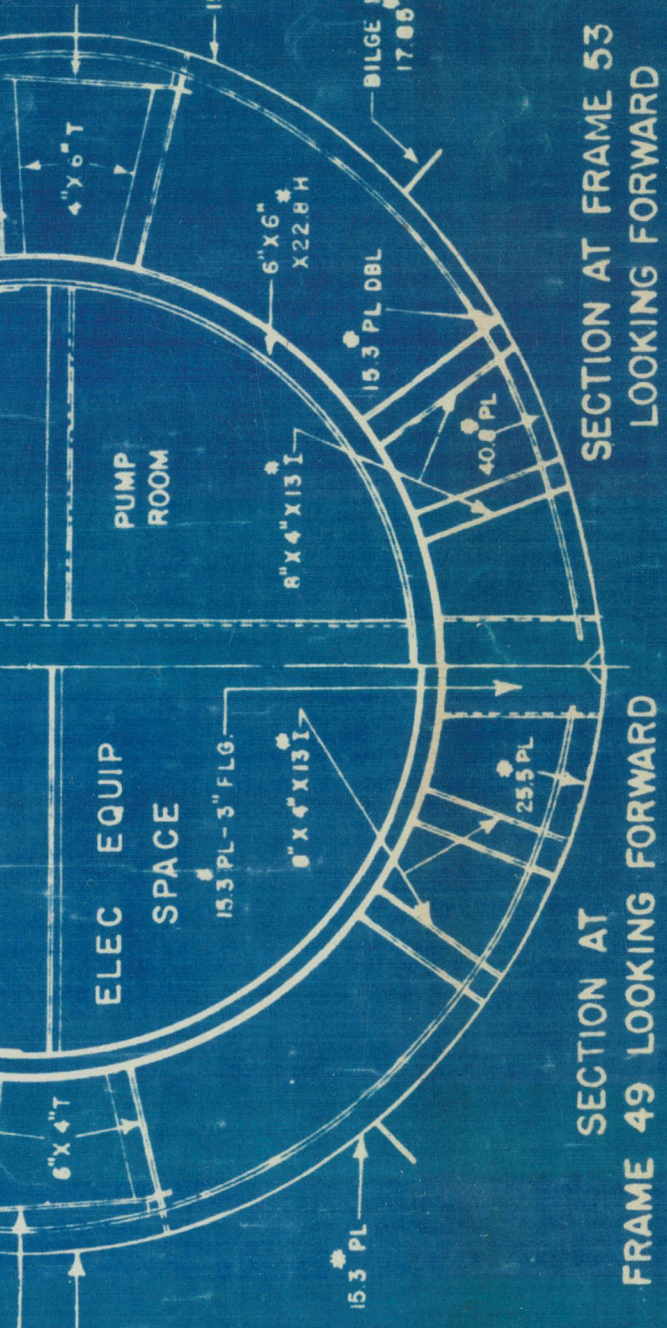
SECTION AT FRAME 17  
LOOKING FORWARD



SECTION AT FRAME 26  
LOOKING FORWARD



SECTION AT FRAME 125  
LOOKING AFT



SECTION AT FRAME 53  
LOOKING FORWARD

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SUBMARINE SS391  
TYPICAL SECTIONS  
SCALE 1/4"=1'FOOT PLATE NO. 8  
BUSHIPS NO. SS391-S0103-68301